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5.1

Бүх ажилчдын талаархи дэлгэрэнгүй мэдээлэл

MySQL:

The screenshot shows the MySQL Workbench interface with the 'Staff' table selected. The table has columns: staffNo, fName, lName, oPosition, sex, DOB, salary, and branchNo. The data includes rows for Mary Howe, David Ford, Ann Beech, Susan Brand, John White, and Julie Lee.

staffNo	fName	lName	oPosition	sex	DOB	salary	branchNo
SA9	Mary	Howe	Assistant	F	1970-02-19	9000.00	B007
SG14	David	Ford	Supervisor	M	1958-11-24	18000.00	B003
SG37	Ann	Beech	Assistant	F	1960-10-11	12000.00	B003
SG5	Susan	Brand	Manager	F	1940-06-03	24000.00	B003
SL21	John	White	Manager	M	1945-10-01	30000.00	B005
SL41	Julie	Lee	Assistant	F	1965-06-13	9000.00	B005

MsSQL:

The screenshot shows the Microsoft SQL Server Management Studio interface with a query window displaying the results of a SELECT query on the 'Staff' table. The results show the same six rows of data as the MySQL screenshot.

staffNo	fName	lName	oPosition	sex	DOB	salary	branchNo
SA9	Mary	Howe	Assistant	F	1970-02-19	9000.00	B007
SG14	David	Ford	Supervisor	M	1958-11-24	18000.00	B003
SG37	Ann	Beech	Assistant	F	1960-10-11	12000.00	B003
SG5	Susan	Brand	Manager	F	1940-06-03	24000.00	B003
SL21	John	White	Manager	M	1945-10-01	30000.00	B005
SL41	Julie	Lee	Assistant	F	1965-06-13	9000.00	B005

PostgreSQL:

The screenshot shows the pgAdmin 4 interface with the 'Staff' table selected. The table structure and data are identical to the MySQL and MsSQL screenshots.

staffNo	fName	lName	oPosition	sex	dob	salary	branchNo
SL21	John	White	Manager	M	1945-10-01	30000.00	B005
SG37	Ann	Beech	Assistant	F	1960-10-11	12000.00	B003
SG14	David	Ford	Supervisor	M	1958-11-24	18000.00	B003
SA9	Mary	Howe	Assistant	F	1970-02-19	9000.00	B007
SG5	Susan	Brand	Manager	F	1940-06-03	24000.00	B003
SL41	Julie	Lee	Assistant	F	1965-06-13	9000.00	B005

Access:

The screenshot shows a Microsoft Access query results grid titled "Query1". The table has columns: staffNo, fName, lName, positions, sex, DOB, salary, and branch. The data is as follows:

staffNo	fName	lName	positions	sex	DOB	salary	branch
SA9	Mary	Howe	Assistant	F	1970-02-19	9000	B007
SG14	David	Ford	Supervisor	F	1958-11-24	18000	B003
SG37	Ann	Beech	Assistant	F	1960-10-11	12000	B003
SG5	Susan	Brand	Manager	F	1940-06-03	24000	B003
SL21	John	White	Manager	M	1945-10-01	30000	B005
SL41	Julie	Lee	Assistant	F	1965-06-13	9000	B005

## 5.2

Бүх ажилчдын цалингийн жагсаалтыг гаргаж, зөвхөн ажилтнуудын дугаар, овог, цалин зэргийг харуулж байна.

MySQL:

The screenshot shows a MySQL Workbench query results grid. The table has columns: staffNo, fName, lName, and salary. The data is as follows:

staffNo	fName	lName	salary
SA9	Mary	Howe	9000.00
SG14	David	Ford	18000.00
SG37	Ann	Beech	12000.00
SG5	Susan	Brand	24000.00
SL21	John	White	30000.00
SL41	Julie	Lee	9000.00

MsSQL:

The screenshot shows a SQL Server Management Studio query results grid. The table has columns: staffNo, fName, lName, and salary. The data is as follows:

staffNo	fName	lName	salary
SA9	Mary	Howe	9000.00
SG14	David	Ford	18000.00
SG37	Ann	Beech	12000.00
SG5	Susan	Brand	24000.00
SL21	John	White	30000.00
SL41	Julie	Lee	9000.00

## PostgreSQL:

The screenshot shows the pgAdmin 4 interface. In the top navigation bar, 'File', 'Object', 'Tools', and 'Help' are visible. Below the bar, there are tabs for 'Properties', 'SQL', 'Statistics', 'Dependencies', 'Dependents', and 'Schema browser'. The 'Schema browser' tab is active, showing 'DreamHome/postgres@PostgreSQL 13'. The main area displays a SQL query in the 'Query Editor' tab:

```
1 SELECT staffNo, fName, lName, salary
2 From Staff;
```

Below the query, the results are shown in a table titled 'Data Output':

staffNo	fName	lName	salary
SL21	John	White	30000.00
SG37	Ann	Beech	12000.00
SG14	David	Ford	18000.00
SA9	Mary	Howe	9000.00
SG5	Susan	Brand	24000.00
SL41	Julie	Lee	9000.00

## Access:

The screenshot shows a Microsoft Access query result for the 'Staff' table. The table has columns: staffNo, fName, lName, and salary. The data is as follows:

staffNo	fName	lName	salary
SA9	Mary	Howe	9000
SG14	David	Ford	18000
SG37	Ann	Beech	12000
SG5	Susan	Brand	24000
SL21	John	White	30000
SL41	Julie	Lee	9000

## 5.3

Үзсэн бүх үл хөдлөх хөрөнгийн өмчийн дугаарыг харуулж байна.

## MySQL:

The screenshot shows the MySQL Workbench interface. A message at the top indicates 'Showing rows 0 - 4 (5 total, Query took 0.0010 se)'. Below it, a SQL query is displayed:

```
SELECT propertyNo FROM viewing;
```

Below the query, there are buttons for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', and 'Create'. At the bottom, there are buttons for 'Show all' and 'Number of rows: 25'. On the left, there is an 'Options' section with a tree view showing 'propertyNo' and several rows with edit, copy, and delete options. One row is highlighted with a gray background.

### MsSQL:

```
1 SELECT propertyNo
2 FROM viewing;
```

propertyNo
PA14
PG4
PG4
PA14
PG36

### PostgreSQL:

```
SELECT propertyNo
FROM viewing;
```

propertyNo
PA14
PG36
PG4
PG4
PG4

### Access:

propertyNo
PA14
PG4
PG36
PA14
PG14

5.4

Бүх ажилтнуудын сарын цалингийн жагсаалтыг гаргаж, ажилтнуудын дугаар, овог нэр, цалингийн дэлгэрэнгүй мэдээллийг харуулж байна.

### MySQL:

Showing rows 0 - 5 (6 total, Query took 0.0394 seconds.)

```
SELECT staffNo, fName, lName, salary/12 FROM staff;
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	staffNo	fName	lName	salary/12
<input type="checkbox"/>	Edit  Copy  Delete SA9	Mary	Howe	750.000000
<input type="checkbox"/>	Edit  Copy  Delete SG14	David	Ford	1500.000000
<input type="checkbox"/>	Edit  Copy  Delete SG37	Ann	Beech	1000.000000
<input type="checkbox"/>	Edit  Copy  Delete SG5	Susan	Brand	2000.000000
<input type="checkbox"/>	Edit  Copy  Delete SL21	John	White	2500.000000
<input type="checkbox"/>	Edit  Copy  Delete SL41	Julie	Lee	750.000000

## MsSQL:

SQLQuery1.sql - DE...LUCP1\lava (S6)\* - X

```
SELECT staffNo, fName, lName, salary/12
FROM staff;
```

## PostgreSQL:

Help ▾

Dashboard Properties SQL Statistics Dependencies Dependents DreamHome

Results Messages

staffNo	Name	lName	(No column name)
SA9	Mary	Howe	750.000000
SG14	David	Ford	1500.000000
SG37	Ann	Beech	1000.000000
SG5	Susan	Brand	2000.000000
SL21	John	White	2500.000000
SL41	Julie	Lee	750.000000

Query Editor Query History

```
1 SELECT staffNo, fName, lName, salary/12
2 FROM staff;
```

Data Output Explain Messages Notifications

staffNo	fName	lName	salary/12
SL21	John	White	2500.000000
SG37	Ann	Beech	1000.000000
SG14	David	Ford	1500.000000
SA9	Mary	Howe	750.000000
SG5	Susan	Brand	2000.000000
SL41	Julie	Lee	750.000000

Access:

StaffNo	fName	lName	monthlySales
SA9	Mary	Howe	750
SG14	David	Ford	1500
SG37	Ann	Beech	1000
SG5	Susan	Brand	2000
SL21	John	White	2500
SL41	Julie	Lee	750

5.5

10,000 -аас дээш цалинтай бүх ажилчдыг харуулж байна.

MySQL:

Showing rows 0 - 3 (4 total, Query took 0.0015 seconds.)

```
SELECT staffNo, fname, lname, Oposition, salary FROM Staff WHERE salary > 10000;
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all Number of rows: 25 Filter rows: Search this table

Options

staffNo	fname	lname	Oposition	salary
SG14	David	Ford	Supervisor	18000.00
SG37	Ann	Beech	Assistant	12000.00
SG5	Susan	Brand	Manager	24000.00
SL21	John	White	Manager	30000.00

MsSQL:

```
SQLQuery1.sql - DE...LUCP11(dava (56)) * ×
SELECT staffNo, fname, lname, Oposition, salary
FROM Staff
WHERE salary > 10000;
```

100 %

Results Messages

staffNo	fname	lname	Oposition	salary
SG14	David	Ford	Supervisor	18000.00
SG37	Ann	Beech	Assistant	12000.00
SG5	Susan	Brand	Manager	24000.00
SL21	John	White	Manager	30000.00

## PostgreSQL:

```

SELECT staffno, fname, lname, Oposition, salary
FROM Staff
WHERE salary > 10000;

```

staffno	fname	lname	oposition	salary
SL21	John	White	Manager	30000.00
SG37	Ann	Beech	Assistant	12000.00
SG14	David	Ford	Supervisor	18000.00
SG5	Susan	Brand	Manager	24000.00

## Access:

Query1

StaffNo	fName	lName	positions	salary
SL21	John	White	Manager	30000
SG37	Ann	Beech	Assistant	12000
SG14	David	Ford	Supervisor	18000
SG5	Susan	Brand	Manager	24000

## 5.6

Лондон эсвэл Глазго дахь бүх салбарын оффисуудын хаягийг харуулж байна.

## MySQL:

```

SELECT * FROM Branch WHERE city = 'London' OR city='Glasgow';

```

branchNo	street	city	postcode
B002	56 Clover Dr	London	NW10 6EU
B003	163 Main St	Glasgow	G11 9QX
B005	22 Deer Rd	London	SW1 4EH

## MsSQL:

```

SELECT *
FROM Branch
WHERE city = 'London' OR city='Glasgow'

```

branchNo	street	city	postcode
B002	56 Clover Dr	London	NW10 6EU
B003	163 Main St	Glasgow	G11 9QX
B005	22 Deer Rd	London	SW1 4EH

## PostgreSQL:

The screenshot shows the PostgreSQL Query Editor interface. At the top, there's a toolbar with various icons for database management. Below the toolbar, the URL bar shows 'DreamHome/postgres/PostgreSQL 13'. The main area has tabs for 'Query Editor' and 'Query History', with 'Query Editor' currently selected. A code editor window contains the following SQL query:

```

1 SELECT *
2 FROM Branch
3 WHERE city = 'London' OR city='Glasgow'

```

Below the code editor, there are tabs for 'Data Output', 'Explain', 'Messages', and 'Notifications'. The 'Data Output' tab is selected, displaying a table with the following data:

	branchno	street	city	postcode
1	B005	22 deer Rd	London	SW1 4EH
2	B003	163 Main St	Glasgow	G11 9QX
3	B002	56 Clover Dr	London	NW10 6EU

## Access:

The screenshot shows a Microsoft Access query result grid titled 'Query1'. The grid displays four columns: 'branchNo', 'street', 'city', and 'postcode'. The data is as follows:

branchNo	street	city	postcode
B005	22 Deer Rd	London	SW1 4EH
B003	163 Main St	Glasgow	G11 9QX
B002	56 Clover Dr	London	NW10 6EU

## 5.7

20000-30000 -ийн цалинтай бүх ажилчдыг харуулж байна.

## MySQL:

The screenshot shows the MySQL Workbench Query Editor. The query results window displays the following message: 'Showing rows 0 - 1 (2 total, Query took 0.0016 seconds.)'. Below this, the SQL query is shown:

```

SELECT staffNo, fname, lname, oPosition, salary FROM staff WHERE salary>=20000 AND salary <= 30000;

```

Below the query, there are buttons for 'Profiling', 'Edit inline', 'Explain SQL', 'Create PHP code', and 'Refresh'. At the bottom, there are buttons for 'Show all', 'Number of rows: 25', 'Filter rows', 'Search this table', and 'Sort by key: None'. The results table shows two rows of data:

staffNo	fname	lname	oPosition	salary
SG5	Susan	Brand	Manager	24000.00
SL21	John	White	Manager	30000.00

## MsSQL:

The screenshot shows the Microsoft SQL Server Management Studio Query Editor. The query results window displays the following message: '100 % Results Messages'. Below this, the SQL query is shown:

```

SELECT staffNo, fname, lname, oPosition, salary
FROM staff
WHERE salary>=20000 AND salary <= 30000;

```

Below the query, there are buttons for 'Results' and 'Messages'. The results table shows two rows of data:

staffNo	fname	lname	oPosition	salary
SG5	Susan	Brand	Manager	24000.00
SL21	John	White	Manager	30000.00

## PostgreSQL:

DreamHome/postgres@PostgreSQL 13 ▾

Query Editor Query History

```
1 SELECT staffNo, fname, lname, oPosition, salary
2 FROM staff
3 WHERE salary >=20000 AND salary <= 30000;
```

Data Output Explain Messages Notifications

staffno	fname	lname	oPosition	salary
SL21	John	White	Manager	30000.00
SG5	Susan	Brand	Manager	24000.00

## Access:

Query1

staffNo	fName	IName	positions	salary
SL21	John	White	Manager	30000
SG5	Susan	Brand	Manager	24000

## 5.8

Бүх менежер, хяначдыг харуулж байна.

## MySQL:

Showing rows 0 - 2 (3 total). Query took 0.0020 seconds.

```
SELECT staffNo, fname, lname, oPosition FROM Staff WHERE oPosition='Manager' OR oPosition='Supervisor';
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all Number of rows: 25 Filter rows Search this table Sort by key: None

staffNo	fname	lname	oPosition
SG14	David	Ford	Supervisor
SG5	Susan	Brand	Manager
SL21	John	White	Manager

## MsSQL:

SQLQuery1.sql - DE...LUCPI\lava (56)\*

```
SELECT staffNo, fname, lname, oPosition
FROM Staff
WHERE oPosition='Manager' OR oPosition='Supervisor'
```

Results Messages

staffNo	fname	lname	oPosition
SG14	David	Ford	Supervisor
SG5	Susan	Brand	Manager
SL21	John	White	Manager

## PostgreSQL:

```

SELECT staffNo, fname, lname, oPosition
FROM Staff
WHERE oPosition='Manager' OR oPosition='Supervisor'

```

staffNo	fname	lname	oPosition
SL21	John	White	Manager
SG14	David	Ford	Supervisor
SG5	Susan	Brand	Manager

## Access:

staffNo	fName	lName	positions
SL21	John	White	Manager
SG14	David	Ford	Supervisor
SG5	Susan	Brand	Manager

## 5.9

Бүх эзэмшигчдийг 'Glasgow' гэсэн мөрөөр харуулж байна.

## MySQL:

```

SELECT ownerNo, fname, lname, address, telno FROM privateowner WHERE address LIKE '%Glasgow%';

```

ownerNo	fname	lname	address	telno
CO40	Tina	Murphy	63 Well St, Glasgow G42	0141-943-1728
CO87	Carol	Farrel	6 Achray St, Glasgow G32 9DX	0141-357-7419
CO93	Tony	Shaw	12 Park Pl, Glasgow G4 0QR	0141-225-7025

## MsSQL:

```

SELECT ownerNo, fname, lname, address, telno
FROM privateowner
WHERE address LIKE '%Glasgow%';

```

ownerNo	fname	lname	address	telno
CO40	Tina	Murphy	63 Well St, Glasgow G42	0141-943-1728
CO87	Carol	Farrel	6 Achray St, Glasgow G32 9DX	0141-357-7419
CO93	Tony	Shaw	12 Park Pl, Glasgow G4 0QR	0141-225-7025

## PostgreSQL:

DreamHome/postgres@PostgreSQL 13 ✓

Query Editor    Query History

```
1 SELECT ownerNo, fname, lname, address, telno FROM privateowner WHERE address LIKE '%Glasgow%';
```

Data Output    Explain    Messages    Notifications

ownerNo	fname	lname	address	telno
C087	Carol	Farrel	6 Achray St, Glasgow G32 9DX	0141-357-7419
C040	Tina	Murphy	63 Well St, Glasgow G42	0141-943-1728
C093	Tony	Shaw	12 Park Pl, Glasgow G4 0QR	0141-225-7025

## Access:

Query1 \ PrivateOwner

ownerNo	fName	lName	address	telNo
C087	Carol	Farrel	6 Archay st, Glas	0141-357-7419
C040	Tina	Murphy	63 Well St, Glas	0141-943-1728
C093	Tony	Shaw	12 Park Pl, Glas	0141-225-7025

## 5.10

PG4 үл хөдлөх хөрөнгийн талаархи бүх тайлбарыг харуулж байна.

## MySQL:

SELECT clientNo, viewDate FROM Viewing WHERE propertyNo='PG4' AND comments IS NULL;

Profiling [ Edit inline ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all Number of rows: 25 Filter rows: Search this table

+ Options ↴ clientNo viewDate

CR56 2001-05-26

## MsSQL:

SQLQuery1.sql - DE\_LUCPI\lida (56)\* - P

```
=SELECT clientNo, viewDate
FROM Viewing
WHERE propertyNo='PG4' AND
COMMENTS IS NULL;]
```

100 %

Results Messages

clientNo	viewDate
CR56	2001-05-26

## PostgreSQL:

```
psql | Dream-Home/postgres@PostgreSQL:1
Query Editor  Query History
1 SELECT clientNo, viewDate
2   FROM Viewing
3 WHERE propertyNo='PG4' AND
4   COMMENTS IS NULL;
```

Data Output Explain Messages Not

clientno	viewdate
character varying(7)	date
1 CR56	2001-05-26

## Access:

clientNo	viewDate
CR56	5/6/2001

## 5.11

Цалингийн буурах дарааллаар бүх ажилчдын цалинг харуулж байна.

## MySQL:

```
Showing rows 0 - 5 (6 total). Query took 0.0015 seconds. [salary: 30000.00... 900]
SELECT staffNo, fname, lname, salary FROM staff ORDER BY salary DESC;
```

Show all Number of rows: 25 Filter rows: Search this table

staffNo	fname	lname	salary
SL21	John	White	30000.00
SG5	Susan	Brand	24000.00
SG14	David	Ford	18000.00
SG37	Ann	Beech	12000.00
SA9	Mary	Howe	9000.00
SL41	Julie	Lee	9000.00

## MsSQL:

```
SQLQuery1.sql - DE...LUCPI\Java (56)* - X
SELECT staffNo, fname, lname, salary
FROM staff
ORDER BY salary DESC;
```

100 %

Results Messages

staffNo	fname	lname	salary
SL21	John	White	30000.00
SG5	Susan	Brand	24000.00
SG14	David	Ford	18000.00
SG37	Ann	Beech	12000.00
SA9	Mary	Howe	9000.00
SL41	Julie	Lee	9000.00

## PostgreSQL:

```

SELECT staffno, fname, lname, salary
FROM staff
ORDER BY salary DESC;

```

Data Output

staffno	fname	lname	salary
SL21	John	White	30000.00
SG5	Susan	Brand	24000.00
SG14	David	Ford	18000.00
SG37	Ann	Beech	12000.00
SA9	Mary	Howe	9000.00
SL41	Julie	Lee	9000.00

## Access:

staffNo	fName	lName	salary
SL21	John	White	30000
SG5	Susan	Brand	24000
SG14	David	Ford	18000
SG37	Ann	Beech	12000
SL41	Julie	Lee	9000
SA9	Mary	Howe	9000

## 5.12

Үл хөдлөх хөрөнгийн төрлийг дарааллаар нь товчилсон жагсаалтыг харуулж байна.

## MySQL:

Showing rows 0 - 5 (6 total). Query took 0.0023 seconds.

```

SELECT propertyNo, propertyType, rooms, rent FROM propertyforrent ORDER BY propertytype;

```

Profile [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all Number of rows: 25 Filter rows Search this table Sort by key:

+ Options

	propertyNo	propertyType	rooms	rent
<input type="checkbox"/>	Edit Copy Delete PG16	Flat	4	450.0
<input type="checkbox"/>	Edit Copy Delete PG36	Flat	3	375.0
<input type="checkbox"/>	Edit Copy Delete PG4	Flat	3	350.0
<input type="checkbox"/>	Edit Copy Delete PL94	Flat	4	400.0
<input type="checkbox"/>	Edit Copy Delete PA14	House	6	650.0
<input type="checkbox"/>	Edit Copy Delete PG21	House	5	600.0

### MsSQL:

```
SQLQuery1.sql - DE_LUCP1\lava (56) * X
SELECT propertyNo, propertyType, rooms, rent
FROM propertyforrent
ORDER BY propertytype;
```

	propertyNo	propertyType	rooms	rent
1	PG16	Flat	4	450.0
2	PG36	Flat	3	375.0
3	PG4	Flat	3	350.0
4	PL94	Flat	4	400.0
5	PG21	House	5	600.0
6	PA14	House	6	650.0

### PostgreSQL:

```
DreamHome/postgres@PostgreSQL 13 ~
Query Editor Query History
1 SELECT propertyNo, propertyType, rooms, rent
2 FROM propertyforrent
3 ORDER BY propertytype;
```

	propertyNo	propertyType	rooms	rent
1	PL94	Flat	4	400.0
2	PG4	Flat	3	350.0
3	PG36	Flat	3	375.0
4	PG16	Flat	4	450.0
5	PA14	House	6	650.0
6	PG21	House	5	600.0

### Access:

propertyNo	propertyTyp	rooms	rent
PG16	Flat	4	450
PG36	Flat	3	375
PG4	Flat	3	350
PL94	Flat	4	400
PG21	House	5	600
PA14	House	6	650

5.13

Түрээслэхэд сард 350 -аас дээш үнэтэй үл хөдлөх хөрөнгийг харуулж байна.

## MySQL:

```
Your SQL query has been executed successfully.

SELECT COUNT(*) AS count FROM propertyforrent WHERE rent > 350;

 Profiling | Edit inline | Edit | Explain SQL | Create PHP code | Refresh

+ Options
count
5
```

MsSQL:

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "mHome (DESKTOP-DLUCP11)\data (56) - Microsoft SQL Server Management Studio". The menu bar includes "File", "Window", and "Help". Below the menu is a toolbar with icons for New Query, Open, Save, Print, Copy, Paste, Find, Replace, and others. A status bar at the bottom shows "Execute" and various connection and session details.

The main area is a query editor titled "SQLQuery1.sql - DE...LUCP11\data (56)\*". It contains the following T-SQL code:

```
SELECT COUNT(*) AS count FROM propertyforrent WHERE rent > 350;
```

Below the query editor is a results pane titled "Results". It displays a single row of data:

count
5

## PostgreSQL:

DreamHome/postgres@PostgreSQL 13 ✓

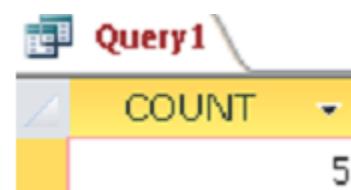
Query Editor    Query History

```
1 SELECT COUNT(*) AS count FROM propertyforrent WHERE rent > 350;
```

Data Output   Explain   Messages   Notifications

	count	bigint
1	5	

## Access:



5.14

5 -р сарын 01 -нд хичнээн олон төрлийн үл хөдлөх хөрөнгө үзсэнг харуулж байна.

MySQL:

Your SQL query has been executed successfully.	
<pre>SELECT COUNT(DISTINCT propertyNo) AS count FROM viewing WHERE viewdate BETWEEN '1-May-01' AND '31-May-01'</pre>	
<input type="checkbox"/>	<a href="#">Profiling</a> <a href="#">Edit inline</a> <a href="#">[Edit]</a> <a href="#">[Explain SQL]</a> <a href="#">[Create PHP code]</a> <a href="#">[Refresh]</a>
+ Options	
<b>count</b>	2

MsSQL:

```

SQLQuery1.sql - DE...LUCPI1\lava (56)* - X
SELECT COUNT(DISTINCT propertyNo) AS count
FROM viewing
WHERE viewdate BETWEEN '1-May-01'
AND '31-May-01'

```

count
2

PostgreSQL:

```

SELECT COUNT(DISTINCT propertyNo) AS count
FROM viewing
WHERE viewdate BETWEEN '1-May-01'
AND '31-May-01'

```

count
2

Access:

5.15

Менежерийн тоо, цалингийн нийлбэрийг харуулж байна.

MySQL:

Your SQL query has been executed successfully.

```

SELECT COUNT(staffNo) AS COUNT, SUM(salary) as SUM from staff WHERE oPosition = 'Manager';

```

COUNT	SUM
2	54000.00

MsSQL:

```

SQLQuery1.sql - DE...LUCPI1\lava (56)* - X
SELECT COUNT(staffNo) AS COUNT,
SUM(salary) as SUM
from staff
WHERE oPosition = 'Manager'

```

COUNT	SUM
2	54000.00

## PostgreSQL:

A screenshot of the PostgreSQL Query Editor interface. The query window contains the following SQL code:

```
1 SELECT COUNT(staffNo) AS COUNT,
2 SUM(salary) AS SUM
3 FROM staff
4 WHERE oPosition = 'Manager'
```

The results pane shows the output of the query:

count	sum
1	54000.00

## Access:

A screenshot of Microsoft Access showing a query result. The results are displayed in two columns: COUNT and SUM. The COUNT column has a value of 2, and the SUM column has a value of 54000.

## 5.16

### MySQL:

A screenshot of MySQL Workbench showing a query result. The query is:

```
SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;
```

The results show the minimum salary as 9000.00, the maximum salary as 30000.00, and the average salary as 17000.00.

### MsSQL:

A screenshot of Microsoft SQL Server Management Studio (SSMS) showing a query result. The query is:

```
SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg
FROM Staff;
```

The results show the minimum salary as 9000.00, the maximum salary as 30000.00, and the average salary as 17000.00.

PostgreSQL:

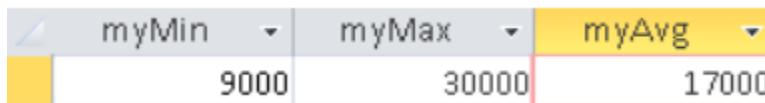
Query Editor    Query History    Scratch Pad

```
1 SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg
2 FROM Staff;
```

Data Output    Explain    Messages    Notifications

	mymin	mymax	myavg
1	9000.00	30000.00	17000.000000000000

Access:



	myMin	myMax	myAvg
	9000	30000	17000

## 5.17

Салбар бүрийн ажилчдын тоо, нийт цалин хөлсийг харуулж байна.

MySQL:

Showing rows 0 - 2 (3 total). Query took 0.0023 seconds. [branchNo: B003... - B007...]

```
SELECT branchNo, COUNT(staffNo) AS COUNT, SUM(salary) as sum FROM staff GROUP by branchNo ORDER BY branchNo;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table

branchNo	COUNT	sum
B003	3	54000.00
B005	2	39000.00
B007	1	9000.00

MsSQL:

mHome (DESKTOP-DLUCPH1)\data (56)\* - Microsoft SQL Server Management Studio

File Window Help

Query Execute

```
SELECT branchNo, COUNT(staffNo) AS COUNT, SUM(salary) as sum
FROM staff
GROUP by branchNo
ORDER BY branchNo;
```

Results Messages

branchNo	COUNT	sum
1 B003	3	54000.00
2 B005	2	39000.00
3 B007	1	9000.00

## PostgreSQL:

```

SELECT branchNo, COUNT(staffNo) AS COUNT, SUM(salary) AS sum
FROM staff
GROUP BY branchNo
ORDER BY branchNo;

```

branchno	count	sum
B003	3	54000.00
B005	2	39000.00
B007	1	9000.00

## Access:

branchNo	myCount	mySum
b3	3	54000
b5	2	39000
b7	1	9000

## 5.18

1 -ээс дээш ажилтантай салбар бүрийн хувьд салбар бүрийн ажилчдын тоо, цалингийн нийлбэрийг харуулж байна.

## MySQL:

```

SELECT branchNo, COUNT(staffNo) AS COUNT, SUM(salary) AS sum FROM staff GROUP BY branchNo HAVING COUNT(staffNo)>1 ORDER BY branchNo;

```

branchNo	COUNT	SUM
B003	3	54000.00
B005	2	39000.00

## MsSQL:

```

SELECT branchNo, COUNT(staffNo) AS COUNT, SUM(salary) AS sum
FROM staff
GROUP BY branchNo
HAVING COUNT(staffNo)>1
ORDER BY branchNo;

```

branchNo	COUNT	SUM
B003	3	54000.00
B005	2	39000.00

## PostgreSQL:

The screenshot shows the pgAdmin 4 interface. In the left sidebar, under 'Servers (1)', there is one entry: 'PostgreSQL 13' which has 'DreamHome' selected. Under 'DreamHome', there are entries for 'postgres', 'Login/Group Roles', and 'Tablespaces'. The main area is titled 'Query Editor' and contains the following SQL code:

```

1 SELECT branchNo,
2        COUNT(staffNo) AS COUNT,
3        SUM(salary) AS SUM
4   FROM staff
5  GROUP BY branchNo
6 HAVING COUNT(staffNo)>1
7 ORDER BY branchNo;

```

Below the code, the 'Data Output' tab is selected, showing the results in a table:

branchNo	count	sum
B003	3	54000.00
B005	2	39000.00

## Access:

branchNo	myCount	mySum
b3	3	54000
b5	2	39000

## 5.19

'163 төв гудамжинд' салбарт ажилладаг ажилчдыг харуулж байна.

## MySQL:

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following query:

```

SELECT staffNo, fName, lName, oPosition
FROM staff
WHERE branchNo=(SELECT branchNo
FROM branch
WHERE street='163 Main St');

```

The Results pane displays the following data:

staffNo	fName	lName	oPosition
SG14	David	Ford	Supervisor
SG37	Ann	Beech	Assistant
SG5	Susan	Brand	Manager

## MsSQL:

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The Object Explorer shows a connection to 'DESKTOP-DLUCP11.DreamHome'. The Results pane displays the following data:

staffNo	Name	lName	oPosition
SG14	David	Ford	Supervisor
SG37	Ann	Beech	Assistant
SG5	Susan	Brand	Manager

## PostgreSQL:

```

1 SELECT staffNo, fName, lName, oPosition
2   FROM staff
3 WHERE branchNo=(
4           SELECT branchNo
5             FROM branch
6            WHERE street='163 Main St');
    
```

staffNo	fName	lName	oPosition
SG37	Ann	Beech	Assistant
SG14	David	Ford	Supervisor
SG5	Susan	Brand	Manager

## Access:

staffNo	fName	lName	Positions
SG37	Ann	Beech	Assistant
SG14	David	Ford	Supervisor
SG5	Susan	Brand	Manager

## 5.20

Цалин нь дундаж цалингаас их байгаа бүх ажилчдыг харуулж байна.

## MySQL:

```

SELECT staffNo, fName, lName, oPosition, salary-(SELECT AVG(salary) FROM staff) AS saldiff FROM staff WHERE salary < (SELECT AVG(salary) FROM staff);
    
```

staffNo	fName	lName	oPosition	saldiff
SG14	David	Ford	Supervisor	1000.00000
SG5	Susan	Brand	Manager	7000.00000
SL21	John	White	Manager	13000.00000

## MsSQL:

```

SELECT staffNo, fName, lName, oPosition,
salary-(SELECT AVG(salary) FROM staff) AS saldiff
FROM staff
WHERE salary <
(SELECT AVG(salary)
FROM staff);
    
```

staffNo	fName	lName	oPosition	saldiff
SG14	David	Ford	Supervisor	1000.00000
SG5	Susan	Brand	Manager	7000.00000
SL21	John	White	Manager	13000.00000

## PostgreSQL:

```

SELECT staffNo, fName, lName, oPosition,
       salary-(SELECT AVG(salary) FROM staff) AS saldiff
  FROM staff
 WHERE salary>(
      SELECT AVG(salary)
     FROM staff);
  
```

The screenshot shows the PostgreSQL Query Editor interface. The query above is run, and the results are displayed in a table:

staffNo	fName	lName	oPosition	saldiff
SL21	John	White	Manager	13000.000000000000
SG14	David	Ford	Supervisor	1000.000000000000
SG5	Susan	Brand	Manager	7000.000000000000

## Access:

staffNo	fName	lName	Position	saldiff
sl21	John	white	manager	13000
sg14	David	ford	Deputy	1000
sg5	Susan	Brand	manager	7000

## 5.21

'163 төв гудамж' дээр ажиллагсдын эзэмшдэг үл хөдлөх хөрөнгийг харуулж байна.

## MySQL:

The screenshot shows the MySQL Workbench interface. A query is run, and the results are displayed in a table:

propertyNo	street	city	postcode	propertytype	rooms	rent
PG16	5 Novar Dr	Glasgow	G12 9AX	Flat	4	450.0
PG21	18 Dale Rd	Glasgow	G12	House	5	600.0
PG36	2 Manor Rd	Glasgow	G32 4QX	Flat	3	375.0

## MsSQL:

The screenshot shows the SQL Server Management Studio interface. A query is run, and the results are displayed in a table:

propertyNo	street	city	postcode	propertytype	rooms	rent
PG16	5 Novar Dr	Glasgow	G12 9AX	Flat	4	450.0
PG21	18 Dale Rd	Glasgow	G12	House	5	600.0
PG36	2 Manor Rd	Glasgow	G32 4QX	Flat	3	375.0

## PostgreSQL:

DreamHome/postgres@PostgreSQL 13 ▾

Query Editor    Query History    Scratch Pad

```

1 SELECT propertyNo, street, city, postcode, propertytype, rooms, rent
2 FROM propertyforrent
3 WHERE staffNo IN
4   (SELECT staffNo
5    FROM staff
6    WHERE branchNo=
7      (SELECT branchNo
8       FROM Branch
9       WHERE street ='163 Main St'));

```

Data Output   Explain   Messages   Notifications

propertyNo	street	city	postcode	propertytyp	rooms	rent
PG36	2 Manor Rd	Glasgow	G32 4QX	Flat	3	375.0
PG21	18 Dale rd	Glasgow	G12	House	5	600.0
PG16	5 Novar Dr	Glasgow	G12 9AX	Flat	4	450.0

## Access:

propertyNo	street	city	postcode	propertytyp	rooms	rent
PG36	2 Manor rd	Glasgow	G32 4QX	Flat	3	375
PG21	18 Dale rd	Glasgow	G12	House	5	600
PG16	5 Novar dr	Glasgow	G12 9AX	Flat	4	450

## 5.22

Цалин В003 салбарын нэгээс доошгүй ажилтны цалингаас өндөр цалинтай ажилчдыг харуулж байна.

MySQL:

Showing rows 0 - 2 (3 total. Query took 0.0025 seconds.)

```
SELECT staffNo, fname, lname, oposition, salary FROM staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');
```

Profiling |  Edit inline |  Edit |  Explain SQL |  Create PHP code |  Refresh

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

staffNo	fname	lname	oposition	salary
SG14	David	Ford	Supervisor	18000.00
SG5	Susan	Brand	Manager	24000.00
SL21	John	White	Manager	30000.00

Check all | With selected:  Edit |  Copy |  Delete |  Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

MsSQL:

SQLQuery1.sql - DE...LUCPI\lava (56)\*

```

SELECT staffNo, fname, lname, oposition, salary
FROM staff
WHERE salary > SOME
  (SELECT salary
   FROM Staff
   WHERE branchNo = 'B003');

```

100 %

Results | Messages

staffNo	fname	lname	oposition	salary
SG14	David	Ford	Supervisor	18000.00
SG5	Susan	Brand	Manager	24000.00
SL21	John	White	Manager	30000.00

## PostgreSQL:

```

1 SELECT staffNo, fname, lname, oposition, salary
2 FROM staff
3 WHERE salary > SOME
4          (SELECT salary
5           FROM Staff
6          WHERE branchNo = 'B003');

```

Data Output Explain Messages Notifications

staffno	fname	lname	oposition	salary
SL21	John	White	Manager	30000.00
SG14	David	Ford	Supervisor	18000.00
SG5	Susan	Brand	Manager	24000.00

## Access:

staffNo	fname	lname	positions	salary
SL21	John	White	Manager	30000
SG14	David	Ford	Supervisor	18000
SG5	Susan	Brand	Manager	24000

## 5.23

Цалин B003 салбарын ажилтан бүрийн цалингаас илүү цалинтай ажилчдыг харуулж байна.

## MySQL:

```

Showing rows 0 - 0 (1 total). Query took 0.0020 seconds.

SELECT staffNo, fname, lName, oPosition, salary FROM staff WHERE salary > ALL (SELECT salary FROM staff WHERE branchNo='b003');

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

```

Show all Number of rows: 25 Filter rows: Search this table

+ Options

staffNo	fname	lName	oPosition	salary
SL21	John	White	Manager	30000.00

## MsSQL:

```

SQlQuery1.sql - DE_LUCP11\java (56)* ↗ X
SELECT staffNo, fname, lName, oPosition, salary
FROM staff
WHERE salary > ALL
        (SELECT salary
         FROM staff
         WHERE branchNo='b003');

100 % ↗
Results Messages

```

staffNo	fname	lName	oPosition	salary
SL21	John	White	Manager	30000.00

## PostgreSQL:

```

1 SELECT staffNo, fname, lName, oPosition, salary
2 FROM staff
3 WHERE salary > ALL
4          (SELECT salary
5           FROM staff
6          WHERE branchNo='B003');

```

Data Output Explain Messages Notifications

staffno	fname	lname	oposition	salary
SL21	John	White	Manager	30000.00

## Access:

staffNo	fname	lName	Positions	salary
SL21	John	White	Manager	30000

## 5.24

Үл хөдлөх хөрөнгийг үзсэн бүх үйлчлүүлэгчдийн нэрийг харуулж байна.

MySQL:

Showing rows 0 - 4 (5 total). Query took 0.0038 seconds.

```
SELECT c.clientNo, fName, lName, propertyNo, comments FROM client c, viewing v WHERE c.clientNo = v.clientNo;
```

Show all Number of rows: 25 Filter rows: Search this table

+ Options

clientNo	fName	lName	propertyNo	comments
CR56	Aline	Stewart	PA14	too small
CR62	Mary	Tregar	PA14	no dining room
CR56	Aline	Stewart	PG36	NULL
CR56	Aline	Stewart	PG4	NULL
CR76	John	Kay	PG4	too -ote

MsSQL:

SQLQuery1.sql - DE\_LUCP1\DATA (56)\*

```
SELECT c.clientNo, fName, lName, propertyNo, comments
FROM client c, viewing v
WHERE c.clientNo = v.clientNo;
```

Results Messages

clientNo	fName	lName	propertyNo	comments
1 CR56	Aline	Stewart	PA14	too small
2 CR76	John	Kay	PG4	too -ote
3 CR56	Aline	Stewart	PG36	NULL
4 CR56	Aline	Stewart	PG4	NULL
5 CR76	Aline	Stewart	PG4	too -ote

PostgreSQL:

DreamHome/postgres@PostgreSQL 13 \*

Query Editor Query History

```
1 SELECT c.clientNo, fName, lName, propertyNo, comments
2 FROM client c, viewing v
3 WHERE c.clientNo = v.clientNo;
```

Data Output Explain Messages Notifications

clientno	fname	lname	propertyno	comments
1 CR56	Aline	Stewart	PA14	too small
2 CR76	John	Kay	PG4	too -ote
3 CR56	Aline	Stewart	PG4	[null]
4 CR62	Mary	Tregar	PA14	no dining room
5 CR56	Aline	Stewart	PG36	[null]

## Access:

clientNo	fName	IName	propertyNo	comments
CR56	Aline	Stewart	PA14	too small
CR76	John	Kay	PG14	too remote
CR56	Aline	Stewart	PG4	
CR62	Mary	Tregar	PA14	dining room?
CR56	Aline	Stewart	PG36	
CR56	Aline	Stewart		

## 5.25

Салбар бүрийн хувьд үл хөдлөх хөрөнгийг удирдаж буй ажилтнуудын дугаар, нэр, тэдгээрийн удирдаж буй эд хөрөнгийг харуулж байна.

## MySQL:

Showing rows 0 - 4 (5 total). Query took 0.0427 seconds.) [branchNo: B003... - B007...] [staffNo: SG14... - SA9...]

```
SELECT s.branchNo, s.staffNo, fname, lname, propertyNo FROM staff s, propertyforrent p WHERE s.staffNo = p.staffNo ORDER BY s.branchNo, s.staffNo, propertyNo;
```

Profiling  Edit inline  Explain SQL  Create PHP code  Refresh

Show all Number of rows: 25  Filter rows: Search this table

+ Options

branchNo	staffNo	fname	Iname	propertyNo
B003	SG14	David	Ford	PG16
B003	SG37	Ann	Beech	PG21
B003	SG37	Ann	Beech	PG36
B005	SL41	Julie	Lee	PL94

## MsSQL:

SQLQuery1.sql DE\_LUCP11\data (56)\*

```
SELECT s.branchNo, s.staffNo, fname, lname, propertyNo
FROM staff s, propertyforrent p
WHERE s.staffNo = p.staffNo
ORDER BY s.branchNo, s.staffNo, propertyNo;
```

100 % Results Messages

branchNo	staffNo	fname	Iname	propertyNo
1 B003	SG14	David	Ford	PG16
2 B003	SG37	Ann	Beech	PG21
3 B003	SG37	Ann	Beech	PG36
4 B005	SL41	Julie	Lee	PL94
5 B007	SA9	Mary	Howe	PA14

## PostgreSQL:

DreamHome/postgres@PostgreSQL 13

Query Editor Query History

```
1 SELECT s.branchNo, s.staffNo, fname, lname, propertyNo
2 FROM staff s, propertyforrent p
3 WHERE s.staffNo = p.staffNo
4 ORDER BY s.branchNo, s.staffNo, propertyNo;
```

Data Output Explain Messages Notifications

branchno	staffno	fname	Iname	propertyno
1 B003	SG14	David	Ford	PG16
2 B003	SG37	Ann	Beech	PG21
3 B003	SG37	Ann	Beech	PG36
4 B005	SL41	Julie	Lee	PL94
5 B007	SA9	Mary	Howe	PA14

## Access:

branchNo	staffNo	fname	Iname	propertyNo
B003	SG14	David	Ford	PG16
B003	SG37	Ann	Beech	PG21
B003	SG37	Ann	Beech	PG36
B005	SL41	Julie	Lee	PL94
B007	SA9	Mary	Howe	PA14

5.26

Салбар бүрийн хувьд үл хөдлөх хөрөнгийг удирдаж буй ажилтнуудыг харуулж байна., Үүнд аль салбар байрладаг хот, тэдний эзэмшиж буй өмч хөрөнгө багтана.

MySQL:

Showing rows 0 - 4 (5 total). Query took 0.0036 seconds. [staffNo SG14... - SA9...]

```
SELECT b.branchNo, b.city, s.staffNo, fName, lName, propertyNo FROM Branch b, Staff s, propertyforrent p WHERE b.branchNo = s.branchNo AND s.staffNo = p.staffNo ORDER BY b.branchNo, s.staffNo, propertyNo;
```

Profiling  Edit inline  Explain SQL  Create PHP code  Refresh

Show all Number of rows: 25  Filter rows: Search this table

branchNo	city	staffNo	fName	lName	propertyNo
B003	Glasgow	SG14	David	Ford	PG16
B003	Glasgow	SG37	Ann	Beech	PG21
B003	Glasgow	SG37	Ann	Beech	PG36
B005	London	SL41	Julie	Lee	PL94
B007	Aberdeen	SA9	Mary	Howe	PA14

SQLQuery1.sql - DE\_LUCP11\data (56)\* ↗ X

```
SELECT b.branchNo, b.city, s.staffNo, fName, lName, propertyNo
FROM Branch b, Staff s, propertyforrent p
WHERE b.branchNo = s.branchNo AND s.staffNo = p.staffNo
ORDER BY b.branchNo, s.staffNo, propertyNo;
```

Result Messages

branchNo	city	staffNo	fName	lName	propertyNo
1 B003	Glasgow	SG14	David	Ford	PG16
2 B003	Glasgow	SG37	Ann	Beech	PG21
3 B003	Glasgow	SG37	Ann	Beech	PG36
4 B005	London	SL41	Julie	Lee	PL94
5 B007	Aberdeen	SA9	Mary	Howe	PA14

MsSQL:

SQLQuery1.sql - DE\_LUCP11\data (56)\* ↗ X

```
SELECT b.branchNo, b.city, s.staffNo, fName, lName, propertyNo
FROM Branch b, Staff s, propertyforrent p
WHERE b.branchNo = s.branchNo AND s.staffNo = p.staffNo
ORDER BY b.branchNo, s.staffNo, propertyNo;
```

Result Messages

branchNo	city	staffNo	fName	lName	propertyNo
1 B003	Glasgow	SG14	David	Ford	PG16
2 B003	Glasgow	SG37	Ann	Beech	PG21
3 B003	Glasgow	SG37	Ann	Beech	PG36
4 B005	London	SL41	Julie	Lee	PL94
5 B007	Aberdeen	SA9	Mary	Howe	PA14

PostgreSQL:

DreamHome/postgres@PostgreSQL 13 ✓

Query Editor Query History

```
1 SELECT b.branchNo, b.city, s.staffNo, fName, lName, propertyNo
2 FROM Branch b, Staff s, propertyforrent p
3 WHERE b.branchNo = s.branchNo AND s.staffNo = p.staffNo
4 ORDER BY b.branchNo, s.staffNo, propertyNo;
```

Data Output Explain Messages Notifications

branchno	city	staffno	fname	lname	propertyno
1 B003	Glasgow	SG14	David	Ford	PG16
2 B003	Glasgow	SG37	Ann	Beech	PG21
3 B003	Glasgow	SG37	Ann	Beech	PG36
4 B005	London	SL41	Julie	Lee	PL94
5 B007	Aberdeen	SA9	Mary	Howe	PA14

branchNO	city	staffNo	fName	IName	propertyNo
B003	Glasgow	SG14	David	Ford	PG16
B003	Glasgow	SG37	Ann	Beech	PG21
B003	Glasgow	SG37	Ann	Beech	PG36
B005	London	SL41	Julie	Lee	PL94
B007	Aberdeen	SA9	Mary	Howe	PA14

Access: B007 Aberdeen SA9 Mary Howe PA14